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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/030,985	02/26/98	FALO JR		L	214001-00648
-		1 B4+ 0 7 0 0 0 0	, ¬	EXAMINER	
DIANE R MEYE	ERS	HM12/0808)	VANDER	VEGT, F
ECKERT SEAM		% MELLOTT '	•	ART UNIT	PAPER NUMBER
500 GRANT S' 42ND FLOOR	TREET			1644	27
PITTSBURGH	PA 15219	•		DATE MAILED:	08/08/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



Office Action Summary

09/030,985

Falo et al

Examiner

F. Pierre VanderVegt

Art Unit 1644



e MAILING DATE of this communication appea	ars on the cover sheet with the correspondence address
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NED STATUTORY PERIOD FOR REPLY IS SET IG DATE OF THIS COMMUNICATION.	T TO EXPIRE3 MONTH(S) FROM
(6) MONTHS from the mailing date of this communic for reply specified above is less than thirty (30) days ered timely. for reply is specified above, the maximum statutory	CFR 1.136 (a). In no event, however, may a reply be timely filed cation. s, a reply within the statutory minimum of thirty (30) days will period will apply and will expire SIX (6) MONTHS from the mailing date of t
oly within the set or extended period for reply will, by	y statute, cause the application to become ABANDONED (35 U.S.C. § 133) e mailing date of this communication, even if timely filed, may reduce any
iv- to communication/o) filed on	
this application is in condition for allowance of in accordance with the practice under <i>Ex pa</i>	except for formal matters, prosecution as to the merits is arte Quayle, 1935 C.D. 11; 453 O.G. 213.
f Claims	
(s) <u>13-15 and 17-24</u>	is/are pending in the application.
the above, claim(s)	is/are withdrawn from consideration
(s)	is/are allowed.
(s) <u>13-15 and 17-24</u>	is/are rejected.
	is/are objected to.
s	are subject to restriction and/or election requireme
apers	
pecification is objected to by the Examiner.	
drawing(s) filed onis/ar	re objected to by the Examiner.
proposed drawing correction filed on	is: a approved b disapproved.
oath or declaration is objected to by the Exam	
owledgement is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)-(d).
b) \square Some* c) \square None of:	
Certified copies of the priority documents hav	ve been received.
	ve been received in Application No
application from the International Bure	
51110dg0	priority direct de dicte. 2 :
deferences Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No(s).
Oreftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)
Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:
	ply IED STATUTORY PERIOD FOR REPLY IS SE IG DATE OF THIS COMMUNICATION. If time may be available under the provisions of 37 (6) MONTHS from the mailing date of this communitor reply specified above is less than thirty (30) day ered timely. If or reply is specified above, the maximum statutory pation. In within the set or extended period for reply will, be ceived by the Office later than three months after the tent term adjustment. See 37 CFR 1.704(b). In sive to communication(s) filled on

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DETAILED ACTION

This application claims priority to provisional application 60/039,472. Claims 13-15 and 17-24 are currently pending in this application.

1. Applicant is advised that the Utility Examination Guidelines (Federal Register, Vol. 66, No. 4, pages 1092-1099, Friday January 5, 2001) were published subsequent to the prior Office Action and the claims have been examined in view of these guidelines. The following rejections are set forth herein.

Due to the fact that prosecution is being reopened, the potential Examiner's Amendment discussed with Applicant's representative Diane Myers on February 13, 2001 has not been entered. This Office Action is made **NON-FINAL**.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 13-15 and 17-24 are rejected under 35 U.S.C. 101 because the claimed invention lacks a credible asserted utility or a well-established utility.

Claims 13-15 and 17-24 are drawn to a composition comprising the products of co-culture of antigen presenting cells and tumor cells. The claimed compositions are not supported by either a specific and substantial asserted utility or a well-established utility. The sole utility asserted for the claimed compositions is for the introduction into a subject, including a human, of the composition for the treatment of cancer. The claims read directly upon the reintroduction of living cancer cells into a subject, as the products of co-culture are not necessarily APC-tumor fusions and the composition is not necessarily killed. No credible utility for administering to a human active tumor cells is indicated. In all examples provided in the instant specification, all of which use well-characterized murine tumor models, the cells administered to the subject animals are first

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irradiated. Further, the murine tumor cell lines used in the examples, B16 and 3LL are well known in the art to be highly immunogenic. Contrary to these exemplified murine tumors, human tumors are poorly immunogenic (Fenton et al, U3 on form PTO-892). The instant examples, even those where administration of the claimed composition results in reversal of 'established' tumors, are carried out within a fairly short time-frame, i.e., the animal is administered a large tumor burden initially to establish the tumor followed rapidly by the administration of presenting cells. such as the hybrids, which are extensively loaded with tumor antigen(s), priming T cells to react with cell antigens of a tumor which has not needed to mutate in order to evade the immune system and survive. Contrarily, spontaneous tumors which arise in a subject from an initially low tumor cell burden overcome immune attack by mutation to escape immune recognition by mechanisms such as heterogeneity of MHC Class I expression and allele-specific loss of important tumor antigens (Fenton et al, page 242, second column in particular). While Applicant may have demonstrated that highly immunogenic tumors may be treated using the claimed composition when the tumor cells remaining in the composition have been killed, there is no credible evidence provided that less immunogenic tumors of humans can be similarly treated, or that the composition can be used against tumors which arose spontaneously and successfully evaded the immune system to allow them to become established from an initially low tumor burden. See Brenner v. Manson, 383 U.S. 519, 535-36, 148 USPQ 689, 696 (1966), noting that "a patent is not a hunting license. It is not a reward for the search, but compensation for its successful conclusion." A patent is therefore not a license to experiment. Applicant is directed to the Utility Examination Guidelines, Federal Register, Vol. 66, No. 4, pages 1092-1099, Friday January 5, 2001.

Claims 13-15 and 17-24 are also rejected under 35 U.S.C. 112, first paragraph.
 Specifically, since the claimed invention is not supported by a credible asserted utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

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Conclusion

5. Papers related to this application may be submitted to Technology Center 1600, Group 1640 by facsimile transmission. Papers should be faxed to Group 1640 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The fax phone number for official documents to be entered into the record for Art Unit 1644 is (703)305-3014.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to F. Pierre VanderVegt, whose telephone number is (703)305-6997. The Examiner can normally be reached Tuesday through Friday and odd-numbered Mondays (on year 2001 365-day calender) from 6:30 am to 4:00 pm ET. A message may be left on the Examiner's voice mail service. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Ms. Christina Chan can be reached at (703)308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1600 receptionist, whose telephone number is (703)308-0196.

F. Pierre VanderVegt, Ph.D. Patent Examiner Technology Center 1600 August 7, 2001

> FIERRE VANDERVEGT PATENT EXAMINER

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